

**UNIVERSITY OF ESWATINI****Department of Agricultural Economics & Management****RE-SIT EXAMINATION PAPER**

PROGRAMME: BSc. in Agric. Economics and Agribusiness Management Year 4
BSc. in Agronomy Year 4
BSc. in Agricultural Extension & Education Year 4

COURSE CODE: AEM 404/405

TITLE OF PAPER: PROJECT PLANNING & MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: 1. ANSWER ALL QUESTIONS
2. DO NOT WRITE ON THIS QUESTION PAPER
3. ALL ANSWERS SHOULD BE WRITTEN IN THE BOOKLET PROVIDED

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

QUESTION ONE

1. Below are multiple choice questions related to project initiation and management, please pick the most appropriate answer. Each question carries 2 marks.

- 1.1. The most appropriate project management definition is?
A) A management environment that is created for the purpose of delivering one or more business products according to a specified business case
B) Determination of the main objective and forming a clear understanding about the necessity and suitability of the project
C) The application of knowledge, skills, tools and techniques to activities of the project for achievement the project objectives
D) The planning, directing, coordinating and controlling of all project resources from inception to completion to achieve project objectives
- 1.2. The key parameters used in project management include
A) Cost, time and resources
B) Quality, time and costs
C) Time, quality and risks
D) Quality, resources and costs
- 1.3. Which one of the following is not considered in resource management?
A) identifying resources
B) monitoring resources
C) assigning resources to activities
D) none of the above
- 1.4. There are four main sets of structures that are considered in relation to project management, except
A) Risk analysis plan
B) Knowledge areas
C) Project Artefacts
D) Project Activities
- 1.5. Which of the project management structures can be described by this statement “activities that are in the responsibility of project manager and that usually are performed by the project manager?”
A) project process groups
B) project activities and milestones
C) project management activities
D) All the above
- 1.6. Listed below are the project management activities except
A. Acquiring and allocation of human and other resources
B. Create necessary work environment
C. Assessing and controlling risk
D. Solving problems/conflicts both inside/out of the project team
E. None of the above
- 1.7. There are four criteria for initiating a project and these include the following, except
A) authority
B) need
C) budget
D) time
- 1.8. Which is the first stage in the project management model?
A) Project planning
B) Understanding the project environment
C) Project definition
D) Project control

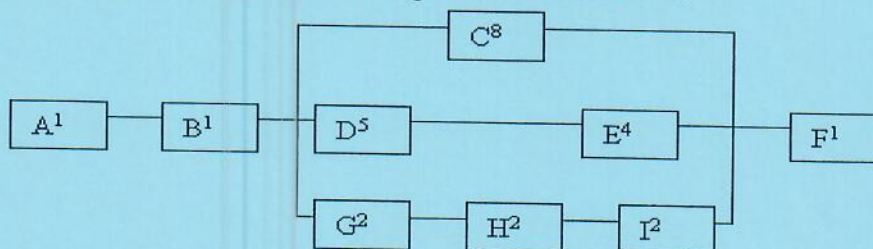
- 1.9. Which of the following is the best flow of a problem tree?
- A) Low output → Limited extension services → Food insecurity
 - B) Less Research → Low output → Food insecurity
 - C) High importation → Low output → limited extension services
 - D) None of the above
- 1.10. A project is typically defined in terms of scope, quality, time, and which other parameter?
- A) Cost
 - B) Resource
 - C) Risks
 - D) Controls
- 1.11. Project time management includes activities below, except?
- A) Activity Sequencing
 - B) Activity control
 - C) Activity Definition
 - D) None of the above
- 1.12. Project cost management includes the processes like
- A) Quality Assurance
 - B) Quality Control
 - C) Resource Planning
 - D) Quality Planning

[TOTAL MARK 24]

QUESTION TWO

2. The following multiple choice questions are related to project planning, appraisal and evaluation, please pick the most appropriate answer. Each question carries 2 marks.
- 2.1. Which of the following should be considered most important when taking into account when planning a project?
- A) All options below
 - B) Political environment
 - C) Environmental concerns
 - D) management environment
- 2.2. The planning and scheduling techniques include the follow, excluding
- A) None of the options below
 - B) Gantt or time-line charts
 - C) Program Evaluation & Review Technique
 - D) log-framework
- 2.3. Which one of the following statements best describes the use of an issue log?
- A) A tool to ensure that the issue management process is adhered to.
 - B) A summary of all the project issues, their analysis and status.
 - C) A summary of all possible alternative resolutions of an issue.
 - D) A tool to ensure that a process is in place for capturing all issues.
- 2.4. Which of the following investment rules does not use the time value of the money concept?
- A) The payback period
 - B) Cost Benefit analysis
 - C) Net present value
 - D) All of the options use the time value concept
- 2.5. Which of these statements is an advantage of the payback period method of project appraisal?
- A) Decision is dependent on the subjectively determined "maximum payback period"
 - B) Viable measure of risk exposure
 - C) Failure to recognize cash flows after the payback period
 - D) Fails to account for time value of money

- 2.6. What is the payback period for a project with the following cash flows: Year 0 = E6000, Year 1 = E4000, Year 2 = E3000?
 A) 1.3 years
 B) 2.1 years
 C) 1.7 years
 D) none of the above
- 2.7. If the net present value of project A is E240, and of project B is E80, then the net present value of the combined project is:
 A) E240
 B) E3
 C) E320
 D) E0.33
- 2.8. You have three mutually exclusive projects: A, B, and C. They have NPVs of E50, E-20 and E100, respectively. What should you do?
 A) Accept A
 B) Accept B
 C) Accept C
 D) Accept A and C
- 2.9. Dumisile Farms Ltd. is considering investing in a new project. The project will need an initial investment of E1, 500,000 and will generate E800, 000 (after-tax) cash flows for three years. Calculate the NPV for the project if the cost of capital is 20%.
 A) E169935
 B) E292110
 C) E600000
 D) E185185
- 2.10. A project has an NPV of E15,250 when a discount rate of 5% is used and the same project has an NPV of (E10,150) when a discount rate of 20% is used, the actual internal rate of return of the project is:
 A) 16%
 B) 15%
 C) 14%
 D) 50%
- 2.11. The effectiveness, efficiency, relevance form part of?
 A) Project planning
 B) Project evaluation
 C) Project management
 D) Project initiation
- 2.12. What is the critical path through the network below?



- A) ABDEF
 B) ABGHIF & ABDEF
 C) ABCEF
 D) ABCF
- 2.13. Project monitoring and evaluation is the continuous process of collecting, processing and assessing information about the:
 A) Project management
 B) Project planning
 C) Project control
 D) Project implementation

QUESTION THREE

- a) Mr. KS., Shongwe is considering investing E2500 in a business and the estimated cash flow of E1200 each year for 4 years. Assuming 2 discounting rates of 15% (R1) and 25% (R2) estimate and interpret the internal rate of returns (IRR) of this project.
- b) The table below lists the cumulative values of upland rice Project, a 6 month project, with values to the end of month 10. From the table provided below what is the Cost Performance Index (CPI), Schedule Performance Index (SPI)?

(15 Marks)

Tabulated summary for mango production Project

Month	BCWS	BCWP	ACWP	CPI	SPI
1	50	50	78		
2	150	80	156		
3	260	200	234		
4	370	300	357		
5	490	420	429		

(10 Marks)**QUESTION FOUR**

- a) Students of Agro-food related courses completed their degree program at University of Swaziland and decided to start-up a project of two years to generate incomes in the process of waiting to access jobs in the public and private sector. These students plan to plant crops for two seasons before ending the project. The farm to be established is high-tech irrigated upland rice scheme. To accomplish the project, the team has to agree on the location and type of land within 2 weeks, obtain the land within 4 weeks, select the needed upland rice variety, inputs & machinery within 2 weeks, obtain the needed upland rice variety, inputs & machinery within 5 weeks, develop the farm layout in 1 week, Organise the available resources including ploughing, establishment of the irrigation facility, planting and other activities in 4 weeks but this activity is achieved after obtaining land, and seedlings, inputs & machinery. Mid evaluation of the project will take roughly 4 weeks, the confirmation of the establishment of high-tech upland rice will take 1 week, and final report writing will take 2 weeks. The project is expected to take an early establishment of 16 weeks or latest 17 weeks. Using the provided information, generate a Work Breakdown Structure, and prepare a Gantt chart of this project.

(25 Marks)

*****GOOD LUCK *****